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... A technique is also provided for rewriting queries that specify an outer **join** that has a **dimension table** on the child-side of the outer **join** and a fact **table** ...

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... between them specifies a 1:n **join** relationship that ... attribute relationships in a denormalized **table** cannot be ... Specifying them in a **dimension** enables the Oracle ...

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... the transaction data along different **dimensions** and levels. ... specified by the flid = lid **join** predicate, applies ... records coming from the Loc **table**, computes the ...

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... is performed in place of the star **join** operation when the query includes the star **join** operation on a base **table** and the plurality of **dimension tables**. ...

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... joins actually take place; yet they are made between a fact **table** and the **tables** representing the **dimensions** of the cube. Techniques like star-join [7] can be ...

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 Atlanta, Georgia, USA  
 Pages: 48 - 55  
 Year of Publication: 2001  
 ISBN:1-58113-437-1

**Authors** [Dimitri Theodoratos](#) New Jersey Institute of Technology, Newark, NJ  
[Aris Tsois](#) National Technical University of Athens, Athens, Greece

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### ↑ ABSTRACT

On-line analytical processing (OLAP) is a technology that encompasses applications requiring a multidimensional and hierarchical view of data. OLAP applications often require fast response time to complex grouping/aggregation queries on enormous quantities of data. Commercial relational database management systems use mainly multiple one-dimensional indexes to process OLAP queries that restrict multiple dimensions. However, in many cases, multidimensional access methods outperform one-dimensional indexing methods. We present an architecture for multidimensional databases that are clustered with respect to multiple hierarchical dimensions. It is based on the star schema and is called CSB star. Then, we focus on heuristically optimizing OLAP queries over this schema using multidimensional access methods. Users can still formulate their queries over a traditional star scheme, which are then rewritten by the query processor over the CSB star. We exploit the different clustering features of the CSB star to efficiently process a class of typical OLAP queries. We detect special cases where the construction of an evaluation plan can be simplified and we discuss improvements of our technique.

### ↑ CITINGS 3

[Dimitri Theodoratos, Exploiting hierarchical clustering in evaluating multidimensional aggregation queries, Proceedings of the 6th ACM international workshop on Data warehousing and OLAP,](#)



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[Alberto O. Mendelzon](#) University of Toronto  
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### ↑ ABSTRACT

OLAP systems support data analysis through a multidimensional data model, according to which data facts are viewed as points in a space of application-related "dimensions", organized into levels which conform a hierarchy. Although the usual assumption is that these points reflect the dynamic aspect of the data warehouse while dimensions are relatively static, in practice it turns out that dimension updates are often necessary to adapt the multidimensional database to changing requirements. These updates can take place either at the structural level (e.g. addition of categories or modification of the hierarchical structure) or at the instance level (elements can be inserted, deleted, merged, etc.). They are poorly supported (or not supported at all) in current commercial systems and have not been addressed in the literature. In a previous paper we introduced a formal model supporting dimension updates. Here, we extend the model, adding a set of semantically meaningful operators which encapsulate common sequences of primitive dimension updates in a more efficient way. We also formally define two mappings (normalized and denormalized) from the multidimensional to the relational model, and compare an implementation of dimension updates using these two approaches.

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JR Groff, PN Weinberg - 2002 - books.google.com

... 169 **Outer Join** Notation \* 173 Joins and the SQL2 Standard 175 Inner Joins in SQL2

\*

175 OuterJoins in SQL2 \* 178 **Cross** Joins and Union Joins in SQL2 \* 180 ...[Cited by 23](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)[Complementary joints to mechanically and removably \*\*join\*\* fluid valve bodies together in fluid ... - group of 3 »](#)

GJ Lukas, RE Berrend... - US Patent 5,881,773, 1999 - Google Patents

... complementary joints to mechanically and removably **join** the fluid valve ... grooves 30,that is, of square **cross** section formed in adjacent **outer** sides 20 ...[Cited by 4](#) - [Related Articles](#) - [Web Search](#)[SRQL: Sorted Relational Query Language - group of 12 »](#)

R Ramakrishnan, D Donjerkovic, A Ranganathan, KS ... - Scientific and Statistical Database Management, 1998. ..., 1998 - ieeexplore.ieee.org

... of the input tables in the **join** condition, and our version of **cross**-product does not propagate these special attributes. We also include left-**outer join** ( ...[Cited by 33](#) - [Related Articles](#) - [Web Search](#)[Storage and Querying of E-Commerce Data - group of 15 »](#)

R Agrawal, A Somani, Y Xu - Proc. of VLDB, 2001 - dlab.ewha.ac.kr

... **join**(  $\square A \square \square \square$  ); right **outer join**(  $\square \square \square 5 \square$  ), **cross** product(  $\square$  ), difference(  $\square$  ), intersection(  $\square$  ), union(  $d$  ), and aggregation ...[Cited by 52](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)[Astronomical Catalogues-Simultaneous Querying and Matching - group of 5 »](#)

HM Adorf, G Lemson, W Voges, H Enke, M Steinmetz - Astronomical Data Analysis Software and Systems XIII, 2003 - adass.org

... search results are fed into a catalogue **cross**-matcher developed by GAVO. The matcheris designed to perform a probabilistic "fuzzy **outer join**" based on sky ...[Cited by 3](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)[Supplement of Information: Data Integration by Classification of Pairs of Records - group of 2 »](#)

M Neiling, HJ Lenz - Presented at the 24th Annual Conference of the GfKI in ..., 2000 - cis.cs.tu-berlin.de

... Unbiased error rates can be estimated by **cross** validation. ... where  $A \bowtie B$  denotes the FULL **OUTER JOIN** of A and B wrt the identification process. ...[Cited by 2](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)[SkyQuery: A Webservice Approach to Federate Databases - group of 3 »](#)

T Malik, AS Szalay, T Budavari, AR Thakar - Arxiv preprint cs.DB/0211023, 2002 -

arxiv.org

... (The **join** is akin to an **outer join** or an **inner join** based on whether the archive is a drop out or not). After this, the **Cross** match service executes its own ...

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»

YCS Chen, FL Lin, J Mukai, H Tie, Y Wang - US Patent 6,385,603, 2002 - Google Patents

... **JOIN**, **RIGHT OUTER JOIN** or **FULL OUTER JOIN**, the table ... intermediate result table,

and the **join**-condition is ... " query, the FROM clause produces a **cross** product of ...

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M Neiling, RM Muller - Institute for Information Systems, 2001 - cis.cs.tu-berlin.de

... The **LEFT** and **RIGHT OUTER JOIN** consist of the records  $a$  and  $b$  that contain only ... to improve the number of comparisons at  $A \times B$  (the **cross**-product of ...

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[book] [OCA/OCP: Introduction to Oracle9i SQL: Study Guide](#)

C Dawes, B Thomas - 2002 - sybex.com

... Option D says 'You cannot insert new rows...'. Should be answer B not D. Flash Cards

True or False: The **NATURAL** and **CROSS join** types cannot be **outer** joins. ...

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R Agrawal, A Somani, Y Xu - Proc. of VLDB, 2001 - dlab.ewha.ac.kr

... X For fixed-width fields (eg INTEGER), the size of a null value is same as a non-null value. ... Its join with a true horizontal table having the scheme ...

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ASML Hoque - Proceedings of the First EurAsian Conference on Information ..., 2002 - Springer

... But at higher non-null density region, 1-ary bit-array ... The performance of this join operation depends on the physical ... key attribute of a 3-ary table has been ...

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H Holstein, B Li - Proc. British Machine Vision Conference, 2002 - bmva.ac.uk

... identify an arbitrary pose from 3D low density feature points ... searching efficiency, the column of non-null candidates for a ... If a join point in the segment P s ...

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M Wang, XS Wang - Proceedings of the 2002 ACM symposium on Applied computing, 2002 - portal.acm.org

... due to the large number of join operations involved ... the number of entries (null or non-null) of the ... For example, the overall density of the schema decomposition ...

[Cited by 1](#) - [Related Articles](#) - [Web Search](#)[Skipnet: A scalable overlay network with practical locality properties - group of 28 »](#)

NJA Harvey, MB Jones, S Saroiu, M Theimer, A ... - Proceedings of USITS, 2003 - research.microsoft.com

... the SkipNet architecture, including how to route in SkipNet, and how to join and leave a ... Each node's set of pointers is called its routing table, or R-Table ...

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G Graefe, U Fayyad, S Chaudhuri - Proceedings of the Fourth International Conference on ..., 1998 - research.microsoft.com

... of cases over which the A i has non-NULL value is ... attention on the case of a uniform density d (for ... the SQL language standard, eg, the outer join operations in ...

[Cited by 65](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)[Similarity-based algebra for multimedia database systems - group of 3 »](#)

S Atnafu, L Brunie, H Kosch - Database Conference, 2001. ADC 2001. Proceedings. 12th ..., 2001 - ieeexplore.ieee.org

... The relational selection and **join** operations have been used ... the user's needs and the data point **density** of the ... It can have a **non-null** value in intermediate ta ...

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F Naumann, JC Freytag - 2000 - informatik.hu-berlin.de

... merged with the union-merge operator in the result **table**. ... to quantify the results of the **join** merge and ... the number of attribute values in the result (**density**). ...

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[Dynamic querying of streaming data with the dQUOB system](#) - group of 10 »

B Plale, K Schwan - Parallel and Distributed Systems, IEEE Transactions on, 2003 - ieeexplore.ieee.org

... of interest occurs such as the ozone **density** over the ... the result of the query is a **nonnull** set. ... Specifically, our overall goal is to maintain **join** windows at a ...

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[Similarity-based operators and query optimization for multimedia database systems](#) - group of 4 »

S Atnafu, L Brunie, H Kosch - Database Engineering & Applications, 2001 International ..., 2001 - ieeexplore.ieee.org

... of other **tables** during binary operations such as similarity-based **join**. P has a value null in the base **tables**, but a **non-null** value in the resulting **table** of a ...

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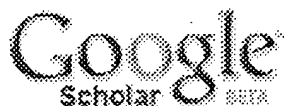
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The recent **database** difficulties have been resolved. Please let us know if you encounter any **data** corruptions. Optimization of Micromechanical **Densification** ...

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Metal matrix composites in industry: an overview

A Mortensen - MMC ASSESS Final Presentation, MMC VIII Conference, London, 2001 - mmc-assess.tuwien.ac.at

... is to present a **database** listing today ... sintering, hot pressing, HIP, extrusion or roll **densification**, ...) ... have been in good faith in providing facts and **data**. ...

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W Loibl, T Toetzer - Environmental Modelling & Software, 2003 - systemsresearch.ac.at

... If **densification** is below a certain critical level the ... allows to define, which input **data** sets shall be loaded - a MS Access **database**™ with statistical ...

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Pressure and cooling rate-induced **densification** of atactic polystyrene - group of 3 »

R Pantani - Journal of Applied Polymer Science, 2003 - doi.wiley.com

... (1), as Taken From C-Mold99.1 **Database**, Describing the ... **DENSIFICATION** OF ATACTIC

POLYSTYRENE ... columns of NaCl and water kept at 296 K. The density **data** shown in ...

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T Podobnikar, Z Stancic, K Oštir - ... Cooperation and Technology Transfer: Proceedings of the ..., 2000 - zrc-sazu.si

... and lines for terrain details, - **densification** (condensing) of the model with scattered **data** as it ... it is necessary to produce a "DTM **database**" that must ...

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Low-cost **densification** of permanent GPS networks for natural hazard mitigation

C Rizos, S Han, L Ge, H Chen, Y Hatanaka, K Abe - 1999 - citeseer.ist.psu.edu

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Three-dimensional outlier detection for GPS networks and their **densification** via the BLIMPBE ...

KB Snow, B Schaffrin - GPS Solutions, 2003 - Springer

... for GPS networks and their **densification** via the BLIMPBE approach ... RINEX **Data** for

the six CORS were retrieved from a NGS **database** for the same days. ...

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PETM Tomsik, American Institute of Chemical ... - 2000 - gltrs.grc.nasa.gov

... access to the NASA STI **Database**, the largest ... the STA will provide the **data** necessary for full-scale implementation of propellant **densification** technology for ...

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... Environmental **database** gathers Digital Terrain Models, urban Digital Surface Models, 3D ... DTM, ...) in terms of both accuracy and density of reliable **data**. ...

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[... of unit shaft resistance on in-situ stress: Observations derived from collected field \*\*data\*\* - group of 4 »](#)

A Shlash Alawneh, OK Nusier, M Al-Kateeb - Geotechnical and Geological Engineering, 2003 - Springer

... **database** consists of 30 pullout tests, 11 closed-ended steel pipe piles, nine open-ended ... Most of the collected **data** in Table 1 were obtained from Toolan et al. ...

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M Fernandez, A Morishima, D Suci - Proceedings of the 2001 ACM SIGMOD international conference ..., 2001 - portal.acm.org

 ... document, increases. 3.4 SQL generation SilkRoute uses **outer-join** plans to construct queries for **partitioned** relations. The **outer** ...

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LCH Liu, LL Baerenwald, JM Plasek, MS Jende, K ... - US Patent 6,263,331, 2001 - Google Patents

 ... while the inner table is being **partitioned**, when the partitioning of the inner table is completed, the hybrid hash **join** process searches for **outer** hit rows ...

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R Ramakrishnan, D Donjerkovic, A Ranganathan, KS ... - Scientific and Statistical Database Management, 1998. ..., 1998 - ieeeexplore.ieee.org

 ... called grouping attributes, and then sequenced by a concatenation of sequencing attributes within each **partition** defined by ... We also include left-**outer join** ( ...

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D Pfooser, CS Jensen - 1998 - doi.ieeeecs.org

 ... The algorithm computing the **join** of a current **partition** with an old **partition** exploits the ordering of the ... The current **partition** is the **outer** relation and ...

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[Design and Evaluation of Database Multiprocessor Architecture with High Data Availability - group of 9 »](#)

LB Sokolinsky - 12th International DEXA Workshop, Munich, Germany, 2001 - doi.ieeeecs.org

 ... each for natural **join**, semi-**join**, **outer-join**, anti-**join** ... in the distribution of **join** attribute values and ... are **partitioned** across the omega-clusters (intercluster ...

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[System and method for hash loops join of data using outer join and early-out join - group of 3 »](#)

BG Lindsay, EJ Shekita - US Patent 6,253,197, 2001 - Google Patents

... Publication: "Hash-Partitioned Join Method Using Dynamic Destaging Strategy." Nakayama

et al. ... AND METHOD FOR HASH LOOPS JOIN OF DATA USING OUTER JOIN AND EARLY ...

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[Executing SQL over encrypted data in the database-service-provider model - group of 9 »](#)

H Hacigümüş, B Iyer, C Li, S Mehrotra - Proceedings of the 2002 ACM SIGMOD international conference ..., 2002 - portal.acm.org

... be no query that involves attribute addr in either a selection or a **join**, then the ...

2.1 **Partition Functions** We explain what is stored in attribute As of Rs for ...

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[Optimization of data repartitioning during parallel query optimization - group of 2 »](#)

GM Lohman, MH Pirahesh, EJ Shekita, DE Simmen, MS ... - US Patent 6,112,198, 2000 - Google Patents

... 13 Figure 2: Example of **Partitioned Join** with no Data Movement Page 4. ... node 0 node 1 node 2 Figure 3: Example of **Partitioned Join** that Requires Data Movement ...

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[The MD-join: an operator for complex OLAP - group of 5 »](#)

D Chatziantoniou, T Johnson, M Akinde, S Kim - Data Engineering, 2001. Proceedings. 17th International ..., 2001 - [ieeexplore.ieee.org](#)

... and Sales .month = month+1. Note that the row count of the result of the MD-join is the same as the row count of B (ie, the MD-join performs an **outer join**). ...

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C Zuzarte, W Ma, L Liu - Proceedings of the 2003 ACM SIGMOD international conference ..., 2003 - [portal.acm.org](#)

... In a **partitioned** (shared-nothing) environment, this could also mean a significant amount ... improved on the technique where the use of the **outer join** solved the ...

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